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Expiration Date 01/31/2010

2004 Performance Track Annual Performance Report

American Ref-Fuel Company of Hempstead
A020052

Year 3 Annual Performance Report

SECTION A: GENERAL FACILITY INFORMATION

A.1 Name of your facility:

American Ref-Fuel Company of Hempstead

A.2 Name of your parent company:

American Ref-Fuel Company

A.3 Facility contact person for the Performance Track program:

Name:	Mr. Scott Wheeler
Title:	Environmental Engineer
Phone:	(516) 683-5438
Fax:	(516) 683-1413
Email:	swheeler@ref-fuel.com

A.4 Facility location:

Street Address:	600 Merchants Concourse
Address Cont:	
City:	Westbury
State:	NY
Zip Code:	11590

Mailing address (if different from above):

Mailing Address:	
Address Cont:	
City:	
State:	
Zip Code:	

A.5 Facility's website address (if any):

http://www.ref-fuel.com

A.6 Number of employees (full-time equivalents) who currently work in the facility:

50-99

A.7 North American Industrial Classification System (NAICS) Code(s) that is(are) used to classify business at the facility:

562213 221119

A.8 In your application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any (additional) changes to your facility's list of products and/or activities? If yes, please list them here:

Yes

The Facility received a Title V operating permit expansion in November 2004. There were no physical changes made to the Facility, but we are now permitted to process up to 975,000 tons per year, based on a 12-month rolling total.

A.9 Have the environmental requirements applicable to your facility changed during this reporting period? If yes, please describe these changes here.

Yes

In conjuction with the Title V permit expansion, our daily nitrogen oxides (NOx) concentration limit was reduced from 205 parts per million (ppm) to 185 ppm, our NOx emission rate limit was changed from 437 pounds per hour based on a facility total to 145.7 pounds per hour per boiler, and a new limit of 1457 tons per year of NOx, based on a 365-day rolling total, was added.

SECTION B: ENVIRONMENTAL MANAGEMENT SYSTEM

B.1.a When was an EMS assessment last conducted by an independent party at your facility?

None in three years

If an assessment was conducted during 2004, please provide the type (e.g., ISO 14001 certification), the scope, and the month(s) of each assessment.

Type	Scope	Dates
None	There was no independent assessment conducted in 2004, but the system is requiring that these fields be completed.	January 2004

B.1.b When was an internal EMS assessment last conducted at your facility?

2004

If an assessment was conducted during 2004, please provide the scope and month(s) of each assessment.

Scope	Dates
An environmental meeting is held each quarter with corporate environmental personnel, including the Director of Environmental Affairs, and plant management to discuss all on-going environmental issues - both compliance related and those associated with best management practices. Minutes of the meetings are recorded and distributed, and action items are tracked to completion. The date provided is for the last of these meetings in 2004.	December 2004

B.1.c When was an internal or corporate compliance audit last conducted at your facility?

2004

If an audit was conducted during 2004, please provide the scope and the month(s) of each audit, and indicate who conducted the audit(s) (e.g., facility staff, corporate groups, third party). (Don't include audits, inspections, or site visits by regulatory or external organizations).

Scope	Dates	Who conducted the audit
An internal compliance audit was conducted each quarter in 2004 and the results were incorporated into the quarterly bonus paid to all facility employees. The facility	December 2004	The Environmental Manager responsible

was inspected for items such as housekeeping, chemical storage, control of fugitive emissions, regulatory reporting, and proper waste management. To foster continuous improvement, bonus targets are set at the average score from the previous two years and the facility must perform at a level above average to earn the maximum available bonus. The date listed is for the last audit conducted in 2004.		for the three facilities in American Ref-Fuel's southern region.
The plant Environmental Engineer also conducts periodic compliance audits that are not scored for the bonus, but are intended to ensure that facility personnel maintain our strict environmental standards at all times. Results of the inspections are documented and action items are distributed. Six of these audits were conducted in 2004 and the date listed is for the last of these.	August 2004	The plant Environmental Engineer.
A general facility inspection is completed each year by an individual licensed to practice engineering in the State of New York. The purpose of the inspection is to verify compliance with the applicable regulations and to evaluate the operating condition of the plant equipment. The results of the inspection are documented in a summary report and submitted to the NYS Department of Environmental Conservation.	December 2004	The Environmental Manager responsible for the three facilities in American Ref-Fuel's southern region.

B.1.d (Optional) If you would like to describe any other audits or inspections that were conducted at your facility, please do so here.

An on-site Environmental Monitor from the NYS Department of Environmental Conservation is assigned to the facility and conducts compliance inspections an average of three times per week. He focuses on solid waste management and air quality regulations and reports his findings to the facility after each inspection. In addition, the Environmental Monitor completes a more thorough inspection of the air quality requirements, including a review of records, each quarter.

B.1.e Briefly summarize corrective actions taken and other improvements made as a result of your EMS assessments and compliance audits.

The following corrective actions and improvements were completed as a result of facility audits and incident reviews: the enclosure around one of our ash residue conveyors was extended to minimize the potential for fugitive emissions, more secure caps were installed on the draft ports on all 36 baghouse cell hoppers to prevent uncontrolled dispersion of ash residue, new procedures were put in place to respond to plant upsets and minimize adverse environmental impact, and the baghouses on Units 1 and 2, which serve as the main air pollution control equipment at the facility, were overhauled with new filter bags and cell floors.

B.1.f Has your facility corrected all instances of potential non-compliance and EMS non-conformance identified during your audits and other assessments?

Yes

If no, please explain your plans to correct these instances.

B.1.g When was the last Senior Management review of your EMS completed?

March 2005

Who was the senior manager present at the review?

Name: Mr. Kenneth Armellino, P.E.
Title: Environmental Manager

B.2.a ISO 14001 Certification. Is your facility currently certified to ISO 14001?
No

B.2.b Is your facility a Responsible Care-certified facility?
No

B.3 Environmental Aspects Identification. When did your facility last conduct a systematic identification and/or review of your environmental aspects?
March 2005

B.4 Progress Toward Achieving Objectives and Targets. In the table below, please provide a narrative summary of progress made toward EMS objectives and targets other than those reported as Environmental Performance Commitments in Section C. You may limit the summary to environmental aspects that are significant and towards which progress has been made during the reporting year. Do you have additional environmental aspects to report? No

SECTION C: ENVIRONMENTAL PERFORMANCE COMMITMENTS

COMMITMENT 1

Category:	Water Use				
Aspect:	Total Water Use				
Specific Information on Aspect (Optional):	Based on reuse of collected stormwater.				
	Baseline	**Year 1**	**Year 2**	**Year 3**	**Performance Commitment**
Calendar Year:	2001	2002	2003	2004	2004
Actual Quantity (per year):	487,500,000	495,763,000	506,289,000	493,827,000	482,000,000
Measurement Units:	gallons	**Other:**			
Normalizing Factor:	1.0	1.0	1.026	1.037	1.0 *
Basis for your Normalizing Factor:	Steam Generation. Total water usage at the facility is directly related to the amount of steam generated in the boilers. In 2004, the facility generated approximately 5,849,400 kilopounds of steam compared to 5,642,800 kilopounds in 2001. The ratio of 2004 to 2001 is 1.037.				

Normalized Quantity per year:	487,500,000	495,763,000	493,459,064.33	476,207,328.83	482000000

* Estimated

Explain Exclusions:

C.1.b Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The main project designed to reduce water usage was the installation of a system to reuse collected stormwater that was previously recharged to the groundwater through a collection basin. A temporary pump was set up in April 2004 to gauge its effectiveness and a permanent system with automatic controls and a volume totalizer to track reuse was installed in August 2004. Water is pumped from the stormwater collection basin to the cooling tower basin where it displaces well water and reduces overall usage. In 2004, we reused 4.3 million gallons with this system. The turbine rehabilitation discussed in Commitment 2 also enhanced water efficiency at the facility and enabled us to meet this commitment.

C.1.c Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

COMMITMENT 2

Category:	Energy Use				
Aspect:	Total Energy Use				
Specific Information on Aspect (Optional):	Measured by steam consumed to generate electricity.				
	Baseline	**Year 1**	**Year 2**	**Year 3**	**Performance Commitment**
Calendar Year:	2001	2002	2003	2004	2004
Actual Quantity (per year):	8,000,000	8,000,000	8100000	8,137,700	7,840,000
Measurement Units:	mmBtu	**Other:**			
Normalizing Factor:	1.0	1.0	1.019	1.0275	1.0 *
Basis for your Normalizing Factor:	Net Power Generation. The goal of this commitment is to improve the efficiency of the turbine/generator to provide improved power generation from the same amount of steam, measured as mmBtu consumed by the turbine. In 2004, the facility generated 562,100 MW-hrs of power compared to 547,057 MW-hrs in 2001. The ratio of 2004 to 2001 is 1.0275.				
	8,000,000	8,000,000	7,948,969.58	7,919,902.68	7,840,000

Normalized Quantity per year:					

* Estimated

Explain Exclusions:

C.2.b Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The project that allowed for improved power efficiency was a major overhaul and rehabilitation of the facility's turbine, which generates power for sale to the local utility using steam generated from the combustion of municipal solid waste. The rehabilitation included a thorough cleaning of internal components, restoration of all internal seals, and modification to the control valves and internal stage configuration. Due to operational and economic factors, the project was not completed until May 2004, so we were not able to benefit from the improvements for the entire year. Based on seven months of operation following project completion, we believe we would have met the 2% improvement goal with a full year of operation and are confident that we will achieve it in 2005.

C.2.c Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

COMMITMENT 3

Category:	Waste				
Aspect:	Hazardous Solid Waste				
Specific Information on Aspect (Optional):	Used parts washer solvent.				
	Baseline	**Year 1**	**Year 2**	**Year 3**	**Performance Commitment**
Calendar Year:	2001	2002	2003	2004	2004
Actual Quantity (per year):	450	450	115	0	100
Measurement Units:	lbs	**Other:**			
Normalizing Factor:	1.0	1.0	1.0	1.0	1.0 *
Basis for your Normalizing Factor:	Production				
	450	450	115	0	100

Normalized Quantity per year:					

* Estimated

Explain Exclusions:

C.3.b Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

In January 2003, we replaced our parts washer with a newer model that recycles its own solvent and therefore, does not generate hazardous waste.

C.3.c Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

COMMITMENT 4

Category:	Water Use				
Aspect:	Total Water Use				
Specific Information on Aspect (Optional):	Wastewater to public sewer system.				
	Baseline	**Year 1**	**Year 2**	**Year 3**	**Performance Commitment**
Calendar Year:	2001	2002	2003	2004	2004
Actual Quantity (per year):	178,053	207,778	35,440	0	50,000
Actual (ADMIN) Quantity (per year):					
Measurement Units:	gallons	**Other:**			
Normalizing Factor:	1.0	1.0	1.0	1.0	1.0 *
Basis for your Normalizing Factor:	Production				
Normalized Quantity per year:	178,053	207,778	35,440	0	50,000

Normalized (ADMIN) Quantity per year:					

* Estimated

Explain Exclusions:

Commitment focuses on the gallons of wastewater generated, not the total amount of water used or as previously committed to, the amount of materials (e.g., COD, BOD) in the discharged water.

C.4.b Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

In February 2003, a piping modification was made to allow all water drained from the boilers during a maintenance outage to be directed to a holding tank where it is stored until the completion of the outage, and then pumped back into the boilers. Previously, this water was pumped to the facility's low quality water system, where it is normally reused within the plant, but occasionally had to be discharged to the public sewer system. We did not require any such discharges in 2004.

C.4.c Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

SECTION D: PUBLIC OUTREACH AND PERFORMANCE REPORTING

D.1 Please briefly describe the activities that your facility conducted during the year to interact with the community on environmental issues and to report publicly on environmental performance.

1. The Plant Manager and Environmental Engineer meet with the local Solid Waste Advisory Committee (SWAC) approximately every 6 weeks to discuss environmental and operational issues at the facility and to answer any questions from the group. There were 9 meetings in 2004, including one in December that was held at the plant. 2. The facility held its 14th annual recycling poster contest in 2004, which attracted 1195 entries (the same number as in 2003) from 39 elementary schools. Prizes were awarded to the top three posters in each age category. 3. The facility hosted a total of 105 tours for 1777 visitors in 2004. Of these, 24 tours (460 students) were for science courses such as Biology, Environmental Science, and Mechanical Engineering taught at six local colleges. The lab book for the Biology 101 course taught at the local community college includes a section on American Ref-Fuel and each class takes a plant tour. 4. The Hempstead facility was recognized as a "Top Plant" in the July/August 2004 edition of POWER magazine, a trade publication for the power generation industry. We worked closely with the authors of the article that appeared in the magazine and hi-lighted our environmental management practices and our participation in Performance Track. A copy of the article is attached.

D.2 Please indicate which of the following methods your facility plans to use to make its Performance Track Annual Performance Report available to the public.

Web Site
Meetings
URL: http://www.ref-fuel.com

Attachments (if applicable) :

Power Mag 0804.pdf